

Math 212
Quiz 30

M 14 Nov 2016

Your name: _____

Exercise

(2 pt) For each of the following regions in \mathbf{R}^2 , indicate “Yes” or “No” whether the region is open, path-connected, and simply connected. (Note: By definition, if a region is not path-connected, then it is not simply connected.)

| | (a) | (b) | (c) |
|-------------------|-----|-----|-----|
| Open: | | | |
| Path-connected: | | | |
| Simply connected: | | | |
| | | | |